**Template | Unit Enhancement**

***EXPLANATION & ARGUMENTATION***

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**Background Information**

**Instructional Materials Title:**

**Publication Date:**

**Work Group Participants:**

**Date Developed:**

**High Leverage Lesson (Title and Page Number):**

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**Rationale**

· **Why we identified this particular lesson**

**- Connections to NGSS Practices and WA Science Standards**

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***Explanation* Lesson Enhancement**

**Overview**

· **Identification of where within the High Leverage Lesson to insert enhancement**

· **Key instructional strategies and tools needed**

**Part 1: Lesson Modifications to Lead Up to *Explanation* Experience**

**Part 2: *Explanation* Learning Sequence**

**Part 3-A: Describe Assessment Task**

*Include the* ***question****,* ***evidence*** *students will use, and* ***scientific concepts*** *students will use in their reasoning.*

*Q: Write an explanation that answers the question:*

*Where do producers get their energy?*

*Claim:*

*Write a sentence stating where producers get ~~their energy from.~~ the food they need for energy.*

*Evidence:*

*Provide scientific data to support your claim. Use evidence from the Food-Producers Experiment data table about the conditions required for plant growth.*

Evidence to be used in this response: data table from part 2, investigation 5.

*Reasoning:*

*Explain why your evidence supports your claim. Describe the scientific process involved in producers making their own food, and what you’ve learned about food in the cheese ball investigation.*

*Desired concepts included in response:*

* *Photosynthesis: Light, H2O, CO2 all required for plant growth*
* *Growth=food created*
* *Food=Energy for* producer (cheese ball investigation)

**Part 3-B: Assessment Rubric**

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**Additional Information**

Teacher should modify level of scaffolding for this question depending on student level.

Prompt students to connection with part 1 of this investigation: “food burns, therefore it has energy.”

Prior knowledge of basic types of energy and energy transformation will help